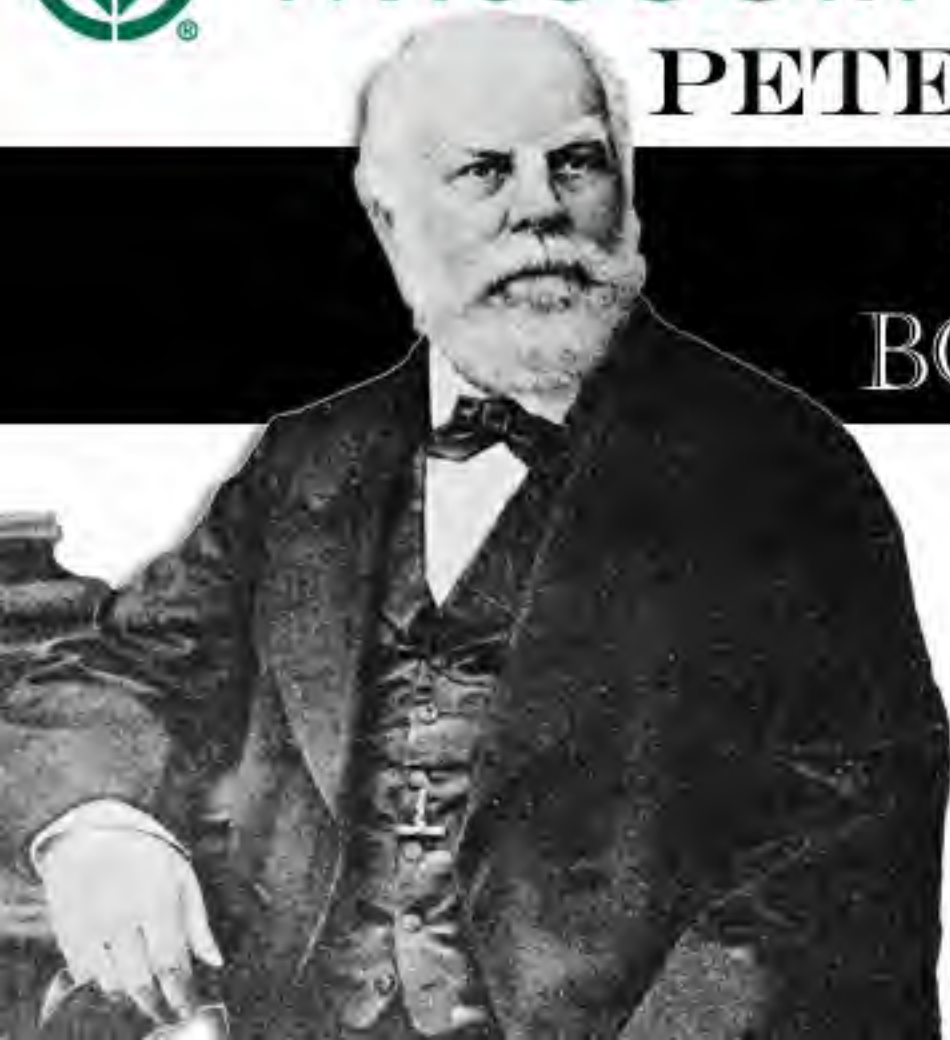


MISSOURI BOTANICAL GARDEN
PETER H. RAVEN LIBRARY



GEORGE ENGELMANN
BOTANICAL NOTEBOOKS

Pagination Note:

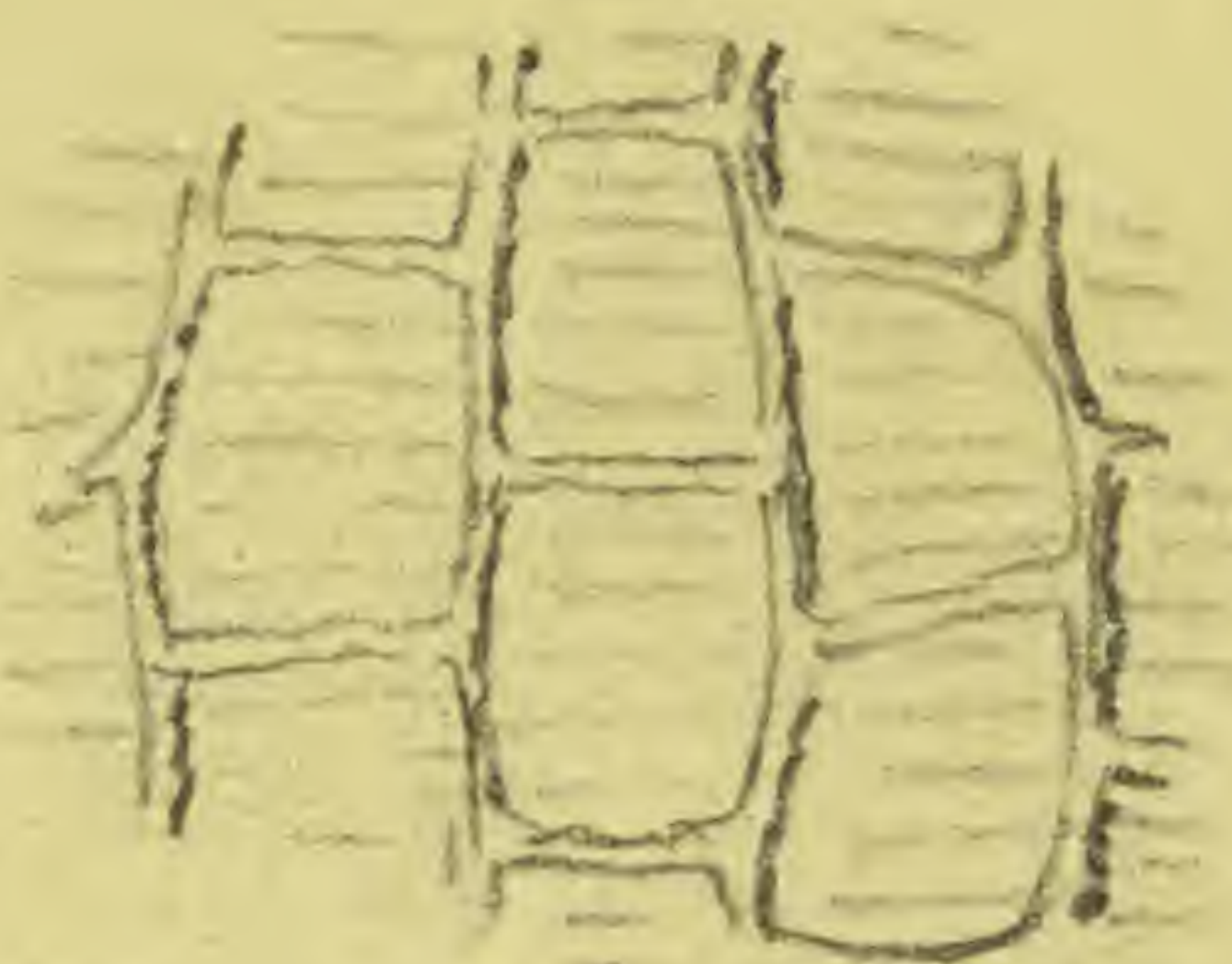
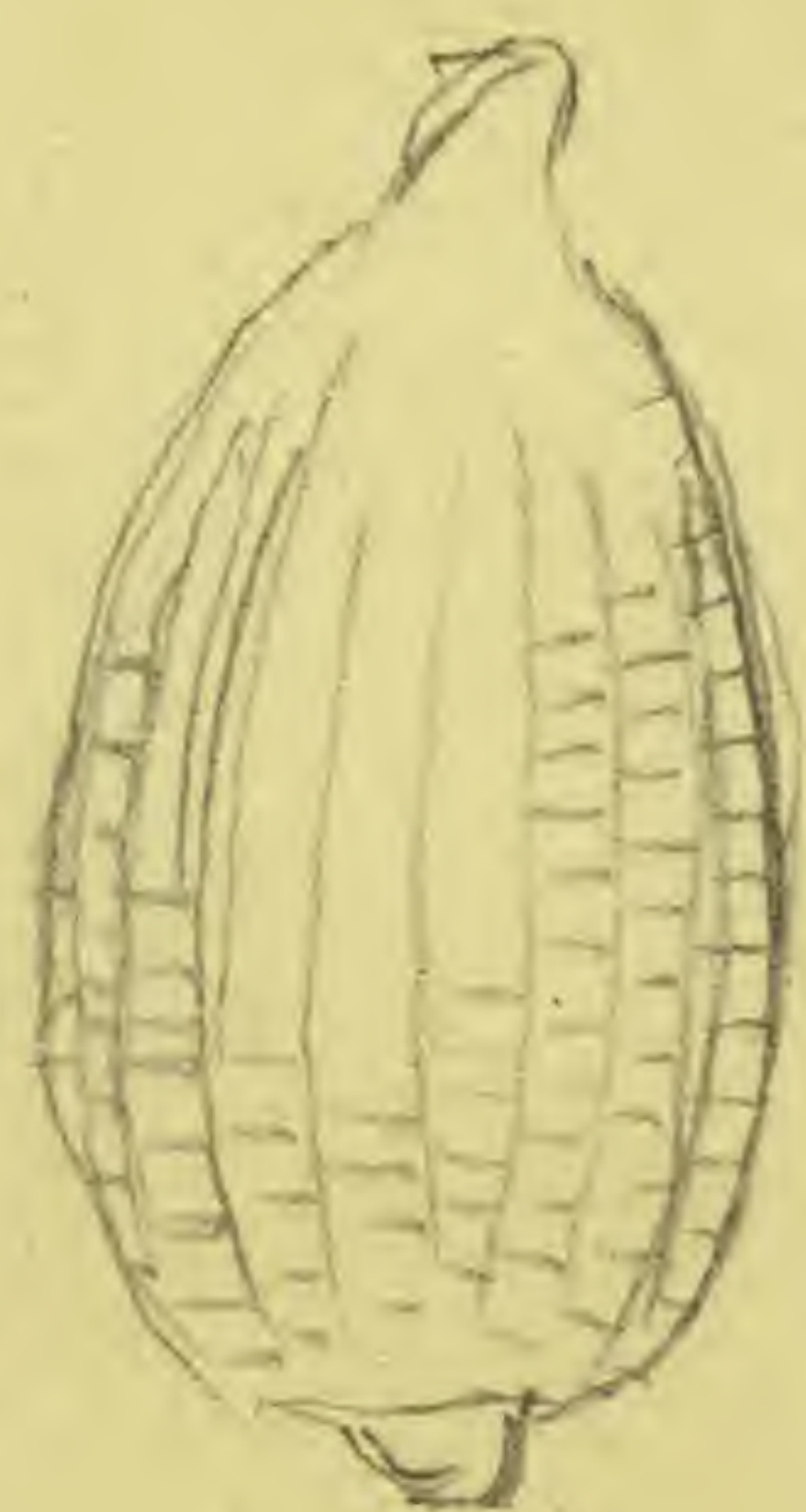
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

Juncus
 on Wright Texas 1850

Aug 24 1865

Heads 15-40 flower

x60



Aug 8 1866



inner sepals
 much longer than
 outer ones



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
 BOTANICAL
 GARDEN

ALEX. LEITCH,

APOTHECARY & PHARMACEUTIST,

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

9629



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved

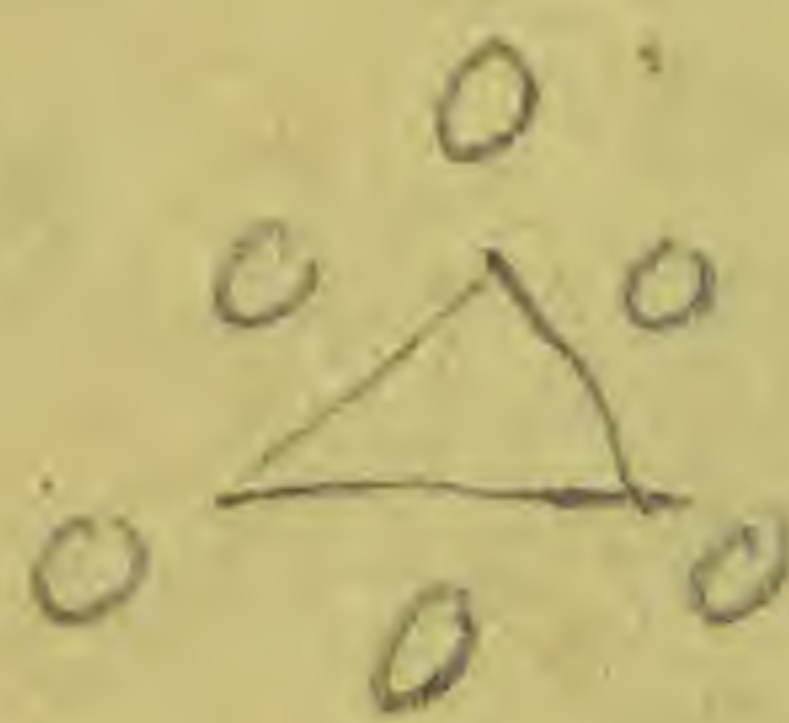


MISSOURI
BOTANICAL
GARDEN

Nov 12 185

Juncus, Buckley - Hb. Berni.

barely in flower



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN



Alex. Leitch,
APOTHECARY & PHARMACEUTIST,
 COR. 4TH & OLIVE STS., ST. LOUIS.

9630

MISSOURI BOTANICAL GARDEN
 GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
 BOTANICAL
 GARDEN

Wright, Tex

stoloniferus, stolonibus bulbiferis
ligula breviter, albo membranacea
lobis ovatis obtusis (= J. nodosus)
sepala lanceolata - subulata,
exteriora breviora,
stamin 6 antherae filamento duplo
longiores
capsula subulata attenuata
calycem exsertit
In scirpoides & nodosus imm sepals shorter
than the anthers



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved

MISSOURI
BOTANICAL
GARDEN

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



CHEMIST

AL. EX. LEITCH,

APOTHECARY & CHEMIST,

Cor. 4th and Olive Sts., St. Louis.



ALL THE NEW REMEDIES
CONSTANTLY ON HAND

9631



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

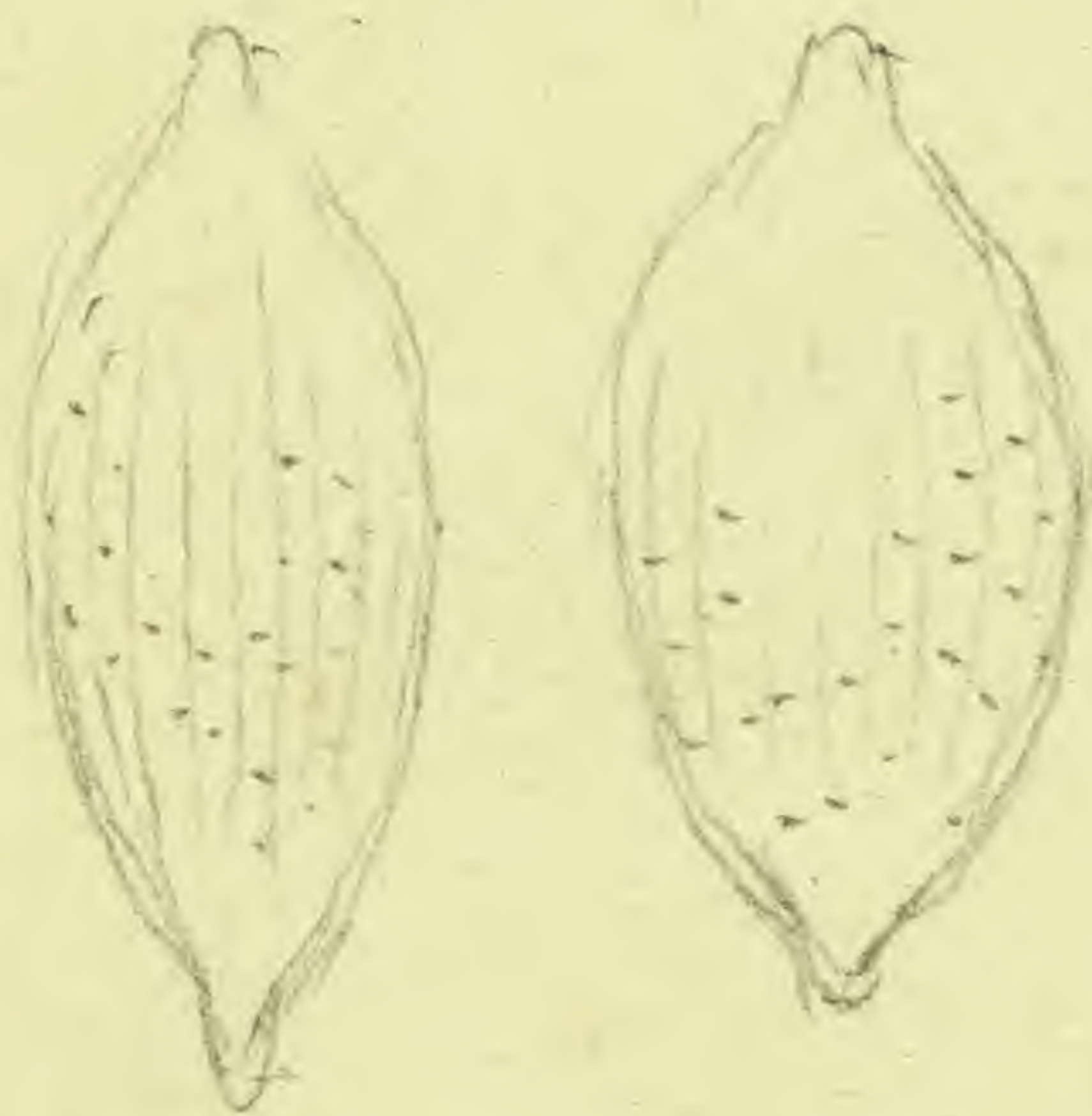
"*J. scorpioides* Lam"

Febr 7 1867

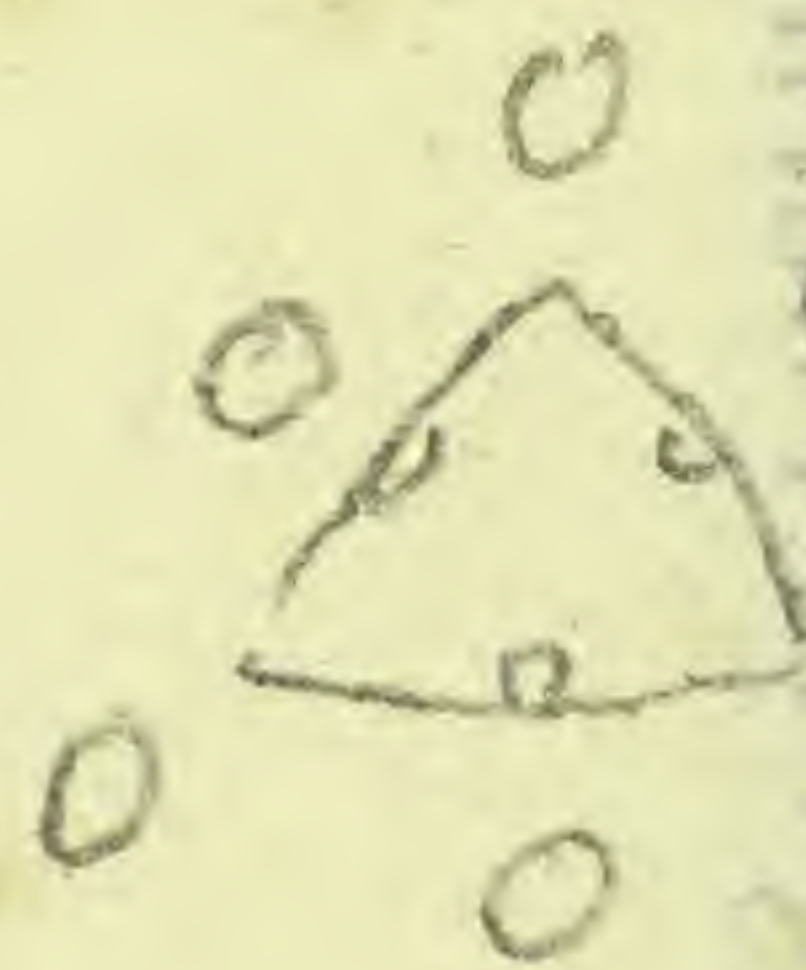
Ex Hb Mus Paris 1866

x60

J. nodosus var



unripe seed



much like the large-anthered *J. texanum*



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

ALEX. LEITCH,

APOTHECARY & PHARMACEUTIST,

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

9632



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

15

Lindheimeria n. sp.
Modiolus n. sp.
 var. *Texasensis*

623-8

ering.

Dimensions.—Length, 0.20 of an inch; width, 0.18.

The *Eleacrinus Kirkwoodensis* is nearly allied to *E. (Pentremites) melo*, from which it is distinguished by its much smaller size and less deeply excavated base. It also occupies a higher geological position.

Occurs in the St. Louis Limestone (Carboniferous) on the Pacific railroad near Kirkwood, St. Louis county, Missouri.

8

Sepala externa breviora
filamenta aetherea (sepe divisa)
linearia breviora



0 1 2 3 4 5 6 7 8 9 10
 cm

copyright reserved



MISSOURI
 BOTANICAL
 GARDEN

the locality of the mineral is near lat. $39^{\circ} 40'$, long. $113^{\circ} 30'$ west of Greenwich, west of south of Salt Lake, in Thomas' range of mountains, on Capt. Simpson's return trail. Circumstances prevented me from obtaining more than a few crystals, which are now deposited in the collection of the Smithsonian Institute; a few others are also in the hands of members of the party. We were travelling at the time by forced night marches with nearly worn out animals, seeking to gain a spring of water in a distant range of mountains. This desert was then entirely unexplored. I have but little doubt that more interesting materials are to be found at the same point.

The mountains of the former Territory of Utah promise a rich yield to the mineralogist. We know already of gold and silver ores in the east, west and south part of that district; of copper and lead ores in the south, and I have discovered the latter also in the centre of it; of specular iron ores and native sulphur in the Rocky Mountains and near Little Salt Lake; of rock salt in the mountains south-east of Utah Lake; of native alum near Salt Lake; of various other salts in the deserts; and of silicates, composing the granites, porphyries, diorites, trachytes, and lavas, nearly over the whole area.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

9633



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Juncus nodosus

Aug 10 1863

Leroy Minnesota

T. J. Hall 1861

x60

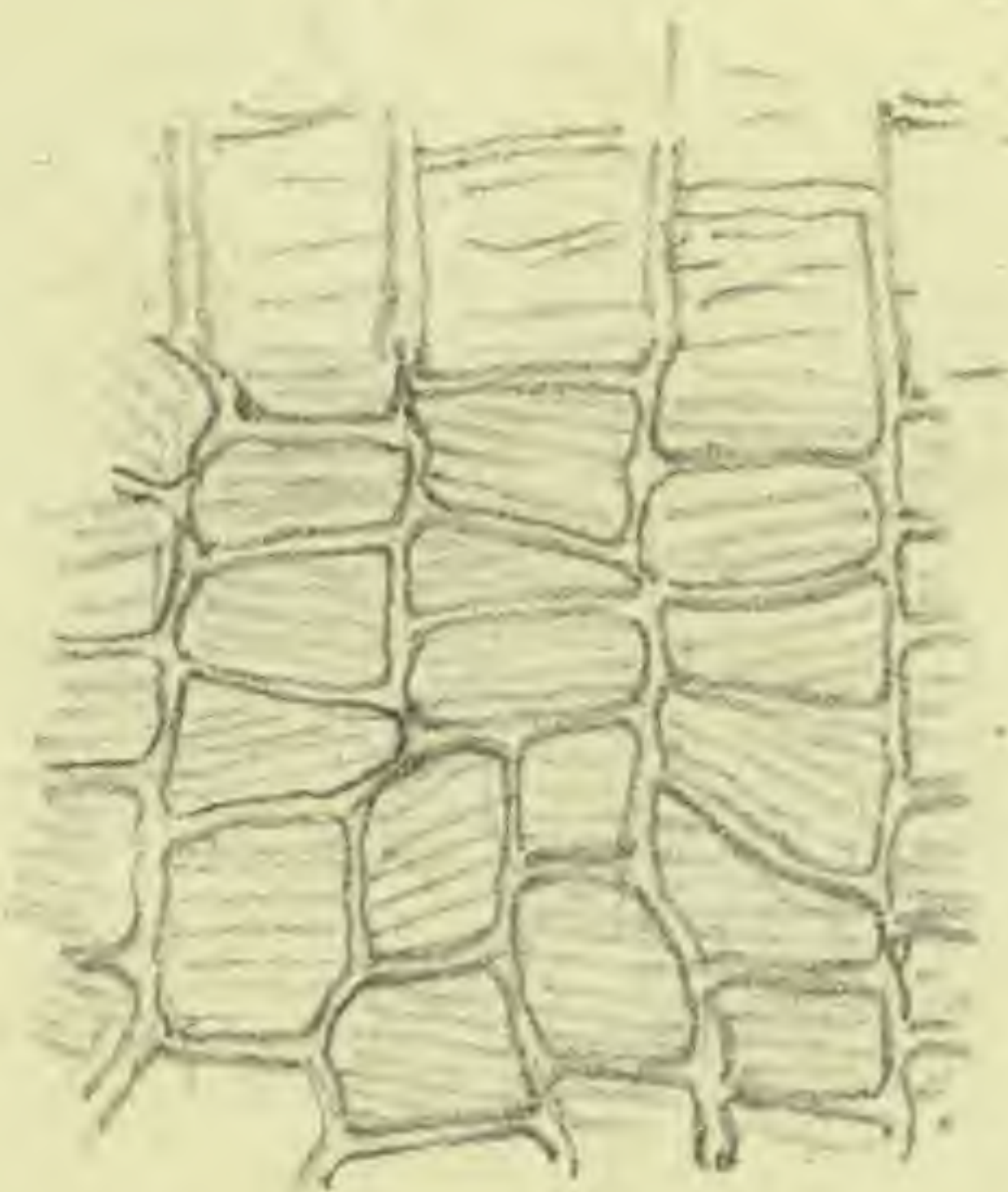


Dec 8

x10



x150



Capsule 1 Corolla

vix rudimentaria dissepim.
entis

The ⁱⁿ valve of Capsule *Juncus* is opposed to the
inner sepal & inner stamen



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

ALEX. LEITCH,

APOTHECARY & PHARMACEUTIST,

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

9634



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Juncus nodosus

terrestris

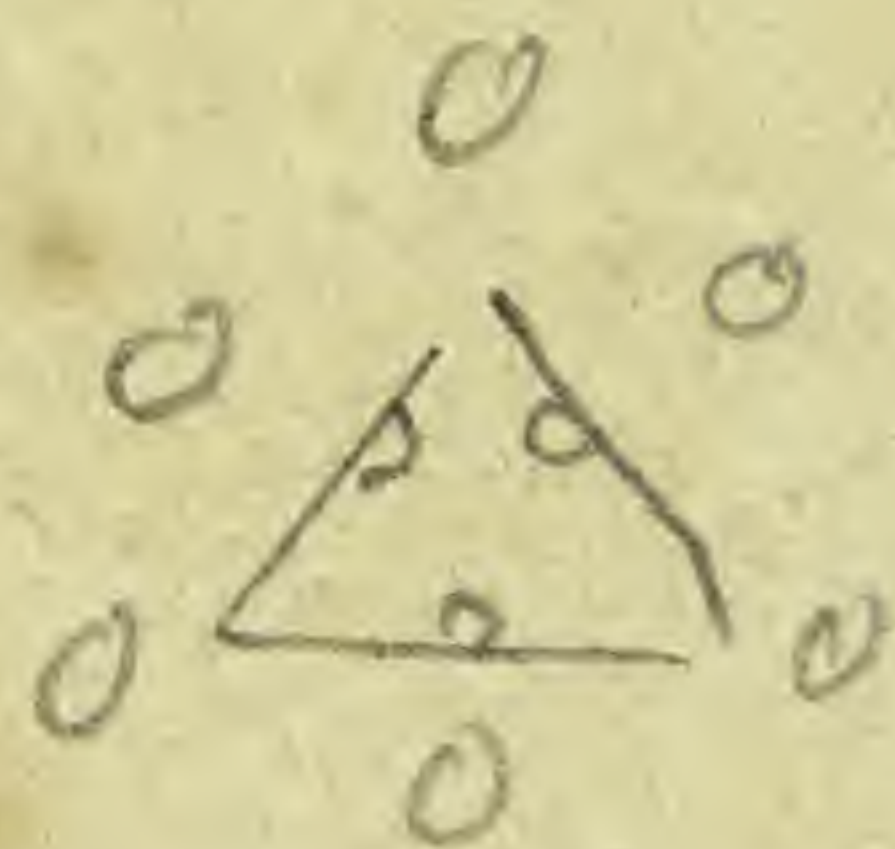
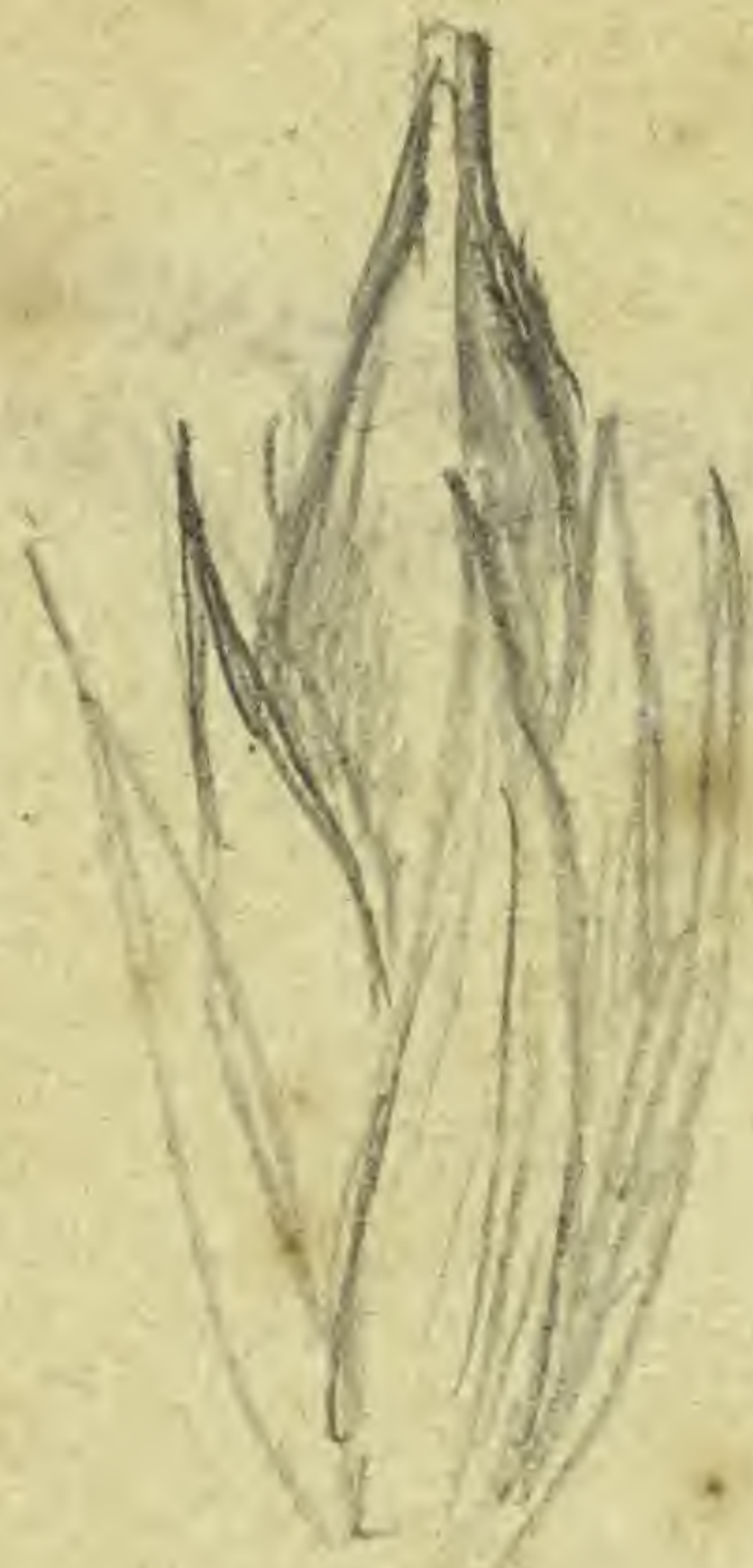
Sept 24 1865

Pennsylv. - Hb. Hb. III

x60

terrestris, capit. 8-12 fl.

cap. fusc.



sepala interna
paulo longiora



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

9635

ALEX. LEITCH,

APOTHECARY & PHARMACEUTIST,

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Legitimus

Immun. nodosus

Octob 1 1865—

Lancaster Pa

Dec 18 1864

Thos C. Porter

Hb. Gray
& Engelm
& Ledy

x 60



x 10



x 150



sepals 11-12
longior

anther
oblonge
apiculata

capsule 10-15 seeds, Stamens - fere

5 Vasey, Dexter N.Y. in Hb Gray. - same, but
caps. more exsert, with 20-25
seeds - anthers nearly equal to
filament - interior sepals decidedly
longer



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

ALEX. LEITCH
APOTHECARY & PHARMACEUTIST
 & DEALER IN
 ALL FINE FRENCH & ENGLISH
 CHEMICAL PREPARATIONS.
 Cor. 4th. & Olive Sts. ST. LOUIS.

9636

MISSOURI BOTANICAL GARDEN
 GEORGE ENGELMANN PAPERS



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
 BOTANICAL
 GARDEN

Legitim

Juncus nodosus

Oct 1 1865

Sandy banks of River

Dexter N.Y.

Dr Vasey - Hb Gray



sepalae aequales



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

ALEX. LEITCH
APOTHECARY & PHARMACEUTIST
 (& DEALER IN) **CHEMICAL PREPARATIONS**
 (ALL FINE FRENCH & ENGLISH)
 Cor. 4th. & Olive Sts. ST. LOUIS.

MISSOURI BOTANICAL GARDEN
 GEORGE ENGELMANN PAPERS

9637



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
 BOTANICAL
 GARDEN

"*Juncus polycephalus* L." "

Oct 4. 1865

J. nodosus var ?

N. W. Coast, Bongl, in the grass

mixed with *Xyris* ??

x60



x150

Capitula pauciflora (8-15 fl)

semiglobosa

sepala interiora vix breviora

capsula subulata paulo exserta

s. aequilonga



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

ALEX. LEITCH,

APOTHECARY & PHARMACEUTIST,

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

9638



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

A. Gray - Ct. Febr 20 1866

Juncus nodosus Lin

1/ Linnaeus' reference to Gronov. Virg 15 (nom 152)
is a mistake, a copying in from Gronovius of "Gramen
juncum elatius pericarpis ovatis Americanum" Plat. Amer.
→ And that this is not the type of J. nodosus is
clear, because it does not, like Gronovian things,
appear in the 1st ed of Spec. Plantarum, but in the
2^d.

2/ Linnaeus adnotatio "simillimus J. articulato
sed flores magis capitati" etc. all shows that
Linnaeus was considering some plant in his Herbar.
(and he well describes my J. nodosus).

3/ My notes on Herb. Lin. verify this, by saying:
"Helms specimen (the original) has only 2 or 3
heads and is just what I collected for nodosus in
West New York years ago."

Helms collected in Canada Pennsylvania & Delaware.



0

1

2

3

4

5

6

7

8

9

10

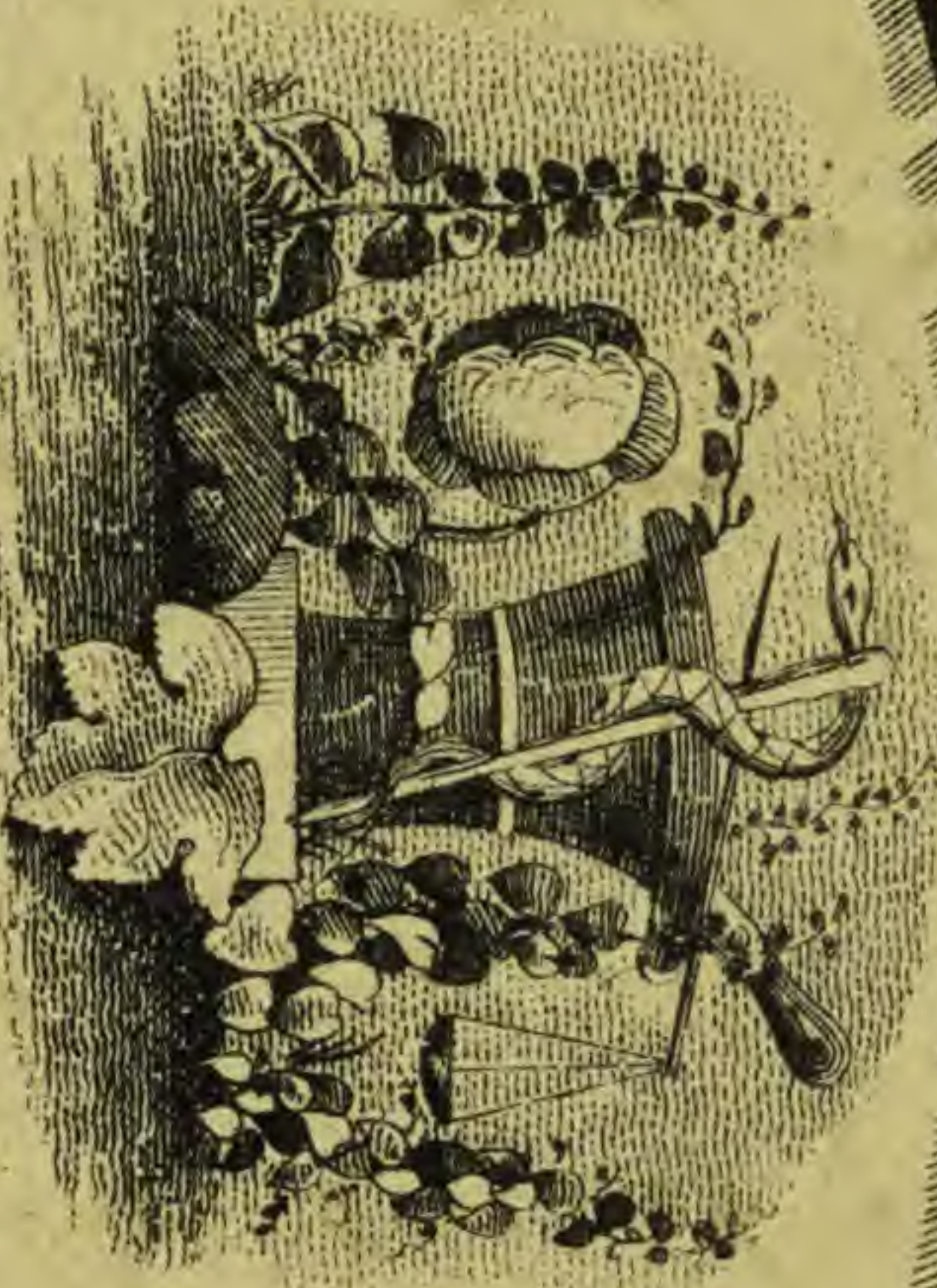
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Apothecaries &



Pharmacutists.

FRANCIS B. SWANNY & Co

S. W. CORNER OF TWELFTH & OLIVE STREETS,

ST. LOUIS, MO.

J. Wood. done. 54

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

9639



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Nodosi genuini Candri

megacephalus capitula durissima, floris majores, virides;

sepala exteriora longiora

stamina dimidia sepala fere aequantia; antherae laeves

filamento paulo breviores aequalis seu

Capsula pyramidalis acuminata vix exserta

semine ovata, abrupte apiculata

Lindheimeri

Capitula laxiora, floris mediis virides s. pallide stramineis

sepala exteriora breviora

stamina dimidia sepala fere aequantia; antherae laeves

filamento longiores

Capsula pyramidalis subulata exserta

semine ovata, abrupte apiculata

nodosus

capitula pauciflora, floris minores fuscali

sepala aequalia s. exteriora paulo breviora

stamina dimidia sepala fere aequantia; antherae oblongae

(rapi apiculatae) filamento breviores

Capsula lanceolata acuta s. acuminata plus minus exserta

semine ovata, abrupte apiculata

ovarii ovatus in

stylis brevissimis

completis transiens



0
cm

1

2

3

4

5

6

7

8

9

10

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Deutsche Apotheke

— von —

John W. Schübe,

Südwestliche Ecke von Broadway und Morgan Straße,

St. Louis, Mo.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

9640



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Luther

	Jan.	Feb.	Mar.	Apr'l.	May.	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean of Year.
1861...	32.2	40.4	44.8	58.1	64.1	76.9	77.5	78.6	69.1	57.9	46.0	39.7	57.1°F.
1862...	28.9	30.2	43.2	55.0	69.7	75.1	81.2	80.7	72.1	57.3	42.6	41.3	56.4°F.

RELATIVE HUMIDITY.

	Jan.	Feb.	Mar.	Apr'l.	May.	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean of Year.
1861...	72.2	63.3	64.5	61.5	66.3	70.8	66.3	69.6	77.3	76.6	69.0	74.3	69.5
1862...	85.3	73.9	70.8	67.0	57.3	67.0	66.8	64.3	74.2	67.2	69.5	74.6	69.8

III. Yearly mean of Positive Electricity of Temperature, and of Relative Humidity of the Atmosphere, at the hours of 6, 9, 12, 3, 6 and 9, from morning till night, based upon daily observations at these hours through the years 1861 and 1862, at St. Louis, Mo.

ELECTRICITY.

	At 6 A.M.	At 9 A.M.	At 12 M.	At 3 P.M.	At 6 P.M.	At 9 P.M.
1861	8.6	10.0	9.2	7.9	8.7	6.9
1862	8.9	10.0	9.1	7.3	8.1	6.8

TEMPERATURE.

1861	48.9° F...	54.9	61.6	63.6	59.3	54.3
1862	48.9	55.0	60.9	62.3	58.0	53.6

RELATIVE HUMIDITY.

1861	86.4	71.3	60.3	57.2	65.1	77.3
1862	85.3	70.6	60.0	57.5	67.6	78.0

622



0 1 2 3 4 5 6 7 8 9 10
cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

9641

112|191|211|230|259|265|351|500|5.L. 50

V. Positive or Negative Electricity in the Observations of '61 & '62.

	Positive Electricity.		Negative Electricity.		No Electricity, or 0.		Highest Positive Electricity.	
	1861.	1862.	1861.	1862.	1861.	1862.	1861.	1862.
Jan.....	179	179	3	5		2	40°	40°
Feb.....	162	166	6	2			34	33
March...	168	179	15	8			30	48
April....	157	157	12	22	1	1	33	52
May.....	171	180	17	5	1	3	25	32
June	162	143	5	2	8	20	16	21
July.....	183	153	3	8	1	24	14	11
August..	176	143	5	4	6	40	15	19
Sept.....	169	117	1	1	10	61	18	23
Oct.....	162	143	4	3	20	41	33	35
Nov.....	172	157	2	7	6	16	42	42
Dec.....	175	166	5	0	6	17	37	35
	2046	1883	78	67	59	225	42°	52°



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Juncus
Lindheimeri No 545

Aug 11 1865

x60



seeds more strongly
ribbed than usual

x10



style as long
as stigma



Exterior stamens not adhering
to scale, but to receptacle
and remaining attached to it after removal of
exterior scale



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

ALEX. LEITCH,

APOTHECARY & PHARMACEUTIST,

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

9642



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Linum

Aug 17 1865

187 *Linum*

New Bruns 1846

3-6 flowers
in head



flower bud

also - Hb. Gray



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

ALEX. LEITCH,
APOTHECARY & PHARMACEUTIST,

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

9643



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved

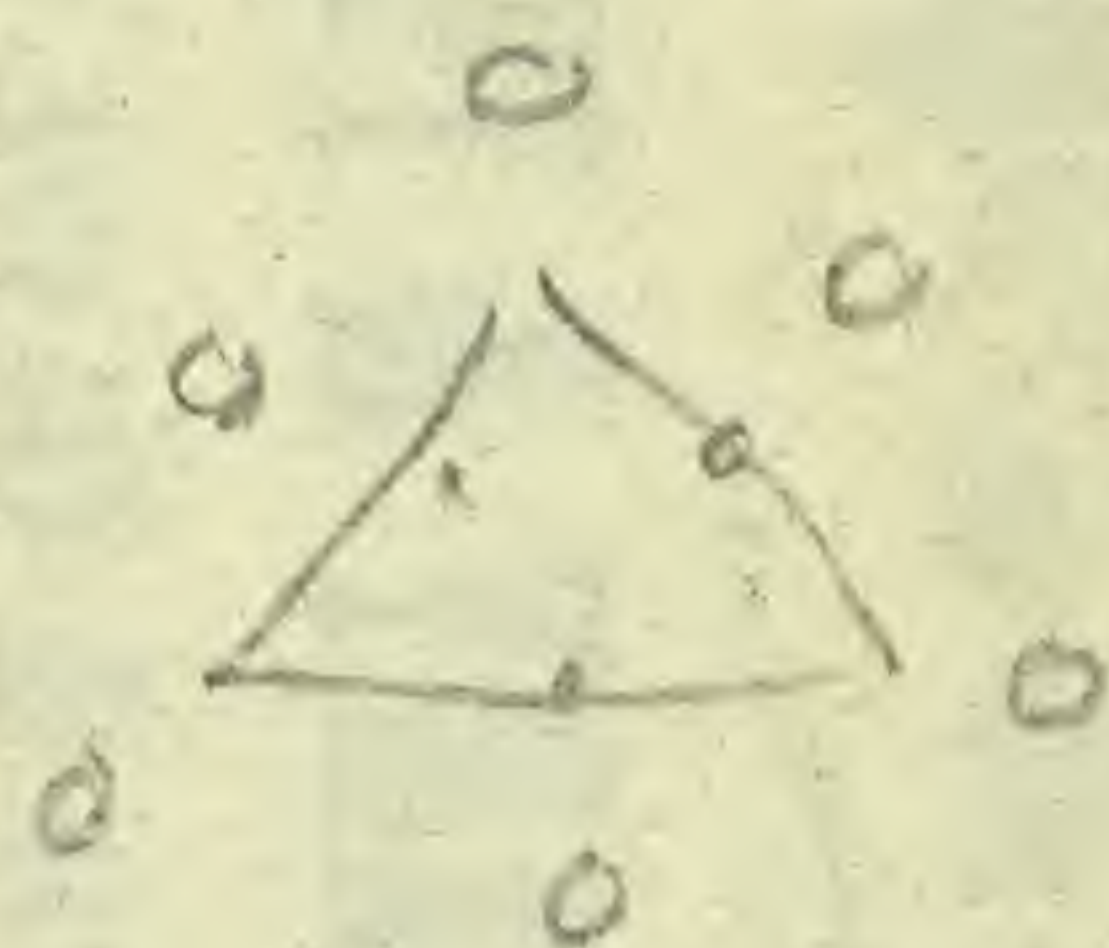


MISSOURI
BOTANICAL
GARDEN

Juncus Linhartii

Nov 26 1865

Brewerly Texas - Hb. Acad
Phil



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Alex. Leitch

APOTHECARY & PHARMACEUTIST,

COR. 4TH & OLIVE STS., ST. LOUIS.



MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

9644



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Nov 30. 1865

I. Linderianum

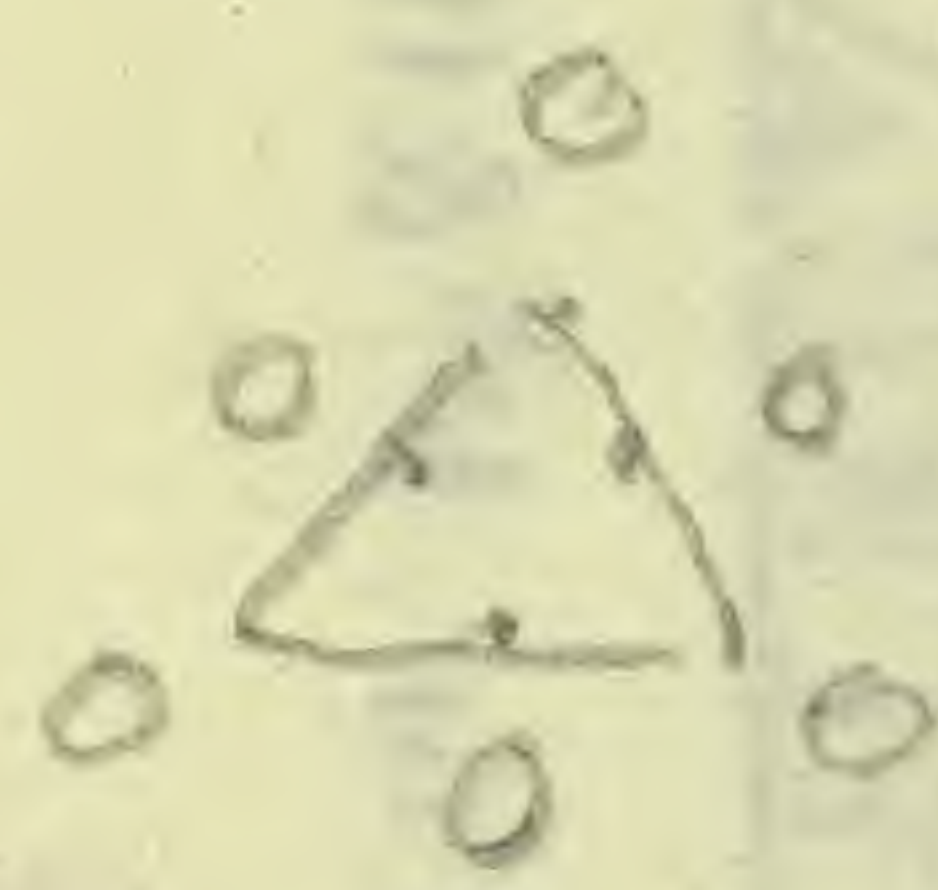
Brickly Cy. Texas
other spec. have lobes!

Texas, no doubt - but mixed
with *Saxipoides* from Philadelphia
and without any lobes

flowers a little smaller
than all other spec. - show



anther apiculate



stigma sessile



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Alex. Leitch,
APOTHECARY & CHEMIST,

Cor. 4th & Olive Sts., St. Louis.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

9645



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Codex Linnaeanus p. 337

2536. Juncus nodosus Spec. Plant. ed. II 1762

foliis nodoso-articulatis, petalis mucronatis.

Sp. Plant. ed. II. 1762

Syst. Nature ed. XI. tom. 2 (1767)

[J. bulbosus γ. Spec. Plant. ed. I. p. 328 (1753)^{n. 9}]

J. foliosus minor, pericarpis ovatis, amaris

Grav. Virg. 15 ^{over}

Gramen juncum elatius pericarpis ovatis amaris

Pluk. alm. 179 t. 92. f. 9

Gramen juncum virginianum, calyculis paleaceis,

bicorne Moris. hist. 3. p. 228 s. 8 t. 9 f. 15
[This is J. tenuis]

Habitat in America septentrionali 4

Simillimus J. articulato sed flores magis capitati;
capitulis varioribus, majoribus, et paniculae rami
simplices, nec superdecussati; imprimis distinguuntur
petalis in acumem subulatum protractis (Sp. Pl. ed. II)



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

ALEX. LEITCH

APOTHECARY & PHARMACEUTIST,

COR. 4TH & OLIVE STS., ST. LOUIS.



In the second edition of *Gnomonides* only one
articulate *Juncus* is mentioned:

"*J. foliis articulosis, floribus umbellatis,*
capsulis triangularibus. Clayt. n. 581 "

without any further note.

Lamarck under *J. serripedus* in
Enc. III. 257 remarks that his
serripedus is most likely *Linum*
J. nodosus — probably it is so!

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

9646



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Tunney Lichtheim

Hb. Philad. Gray Layman

Texas Buckley Buckley

Wright 695 Wright

Lichtheim 545 Lichtheim 545

(Rigwood Ill
no, belongs to nodosus)

Vasey? (Vasey?)



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN



ALEX. LEITCH

APOTHECARY & PHARMACEUTIST,

COR. 4TH & OLIVE STS., ST. LOUIS.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

9647



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

J. oxycarpa Meyer

629-30

	Jan.	Feb.	Mar.	Ap'l.	May.	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean of Year.
1861...	32.2	40.4	44.8	58.1	64.1	76.9	77.5	78.6	69.1	57.9	46.0	39.7	57.1°F.
1862...	28.9	30.2	43.2	55.0	69.7	75.1	81.2	80.7	72.1	57.3	42.6	41.3	56.4°F.

RELATIVE HUMIDITY.

	Jan.	Feb.	Mar.	Ap'l.	May.	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean of Year.
1861...	72.2	63.3	64.5	61.5	66.3	70.8	66.3	69.6	77.3	76.6	69.0	74.3	69.5
1862...	85.3	73.9	70.8	67.0	57.3	67.0	66.8	64.3	74.2	67.2	69.5	74.6	69.8

III. Yearly mean of Positive Electricity of Temperature, and of Relative Humidity of the Atmosphere, at the hours of 6, 9, 12, 3, 6 and 9, from morning till night, based upon daily observations at these hours through the years 1861 and 1862, at St. Louis, Mo.

ELECTRICITY.

	At 6 A.M.	At 9 A.M.	At 12 M.	At 3 P.M.	At 6 P.M.	At 9 P.M.
1861	8.6	10.0	9.2	7.9	8.7	6.9
1862	8.9	10.0	9.1	7.3	8.1	6.8

TEMPERATURE.

1861	48.9° F.	54.9	61.6	63.6	59.3	54.3
1862	48.9	55.0	60.9	62.3	58.0	53.6

RELATIVE HUMIDITY.

1861	86.4	71.3	60.3	57.2	65.1	77.3
1862	85.3	70.6	60.0	57.5	67.6	78.0



0 1 2 3 4 5 6 7 8 9 10

cm copyright reserved



MISSOURI
BOTANICAL
GARDEN

112	191	211	230	259	265	351	550	S.F.	50
-----	-----	-----	-----	-----	-----	-----	-----	-----------	----

V. Positive or Negative Electricity in the Observations of '61 & '62.

	Positive Electricity.		Negative Electricity.		No Electricity, or 0.		Highest Positive Electricity.	
	1861.	1862.	1861.	1862.	1861.	1862.	1861.	1862.
Jan.....	179	179	3	5	2	40°	40°	
Feb.....	162	166	6	2		34	33	
March...	168	179	15	8		30	48	
April....	157	157	12	22	1	33	52	
May.....	171	180	17	5	1	25	32	
June....	162	143	5	2	8	16	21	
July.....	183	153	3	8	1	14	11	
August..	176	143	5	4	6	15	19	
Sept.....	169	117	1	1	10	18	23	
Oct.....	162	143	4	3	20	33	35	
Nov.....	172	157	2	7	6	42	42	
Dec....	175	166	5	0	6	37	35	
	2046	1883	78	67	59	225	42°	52°



0 1 2 3 4 5 6 7 8 9 10



Juncus oxycarpus a

E. M.
Grege C. B. Sp.



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

9649



0

1

2

3

4

5

6

7

8

9

10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

Juncus oxymeris E. Mey

Sept 29 1861

Cape Good Hope Drage - Hb. HB. Moss

x 60



x 10



capsule semi-
trilocular

x 150



sepala interiora
perla longior
ovum arrectum
scabulata

habit of
Juncus nodosus

nodosi Juncus



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN

ALEX. LEITCH,
APOTHECARY & PHARMACEUTIST,
Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

9650



0 1 2 3 4 5 6 7 8 9 10

cm

copyright reserved



MISSOURI
BOTANICAL
GARDEN